

On page 14, line 32, after "DP107", insert the phrase -- (SEQ ID NO:89) --.

On page 14, line 32, after "DP178", insert the phrase -- (SEQ ID NO:1) --.

On page 15, line 11, after "enveloped protein gp41", insert the phrase -- (SEQ ID NO:90) --.

On page 15, line 25, after "glycoprotein F1", insert the phrase -- (SEQ ID NO:91) --.

On page 15, line 29, after "(AGM3 isolate)", insert the phrase -- (SEQ ID NO:92) --.

On page 15, line 33, after "glycoprotein 1", insert the phrase -- (SEQ ID NO:93) --.

On page 16, line 3, after "glycoprotein F1", insert the phrase -- (SEQ ID NO:94) --.

On page 16, line 7, after "glycoprotein F1", insert the phrase -- (SEQ ID NO:95) --.

On page 16, line 11, after "HA2", insert the phrase -- (SEQ ID NO:96) --.

On page 16, line 13, after "(RSV) peptide", insert the phrase -- (SEQ ID NO:97) --.

On page 16, line 15, after "like region", insert the phrase -- [T-22:(SEQ ID NO:121); T-68:(SEQ ID NO:122); T-
334:(SEQ ID NO:123); T-371:(SEQ ID NO:124); T-372:(SEQ ID
NO:125); T-373:(SEQ ID NO:126); T-374:(SEQ ID NO:127); T-
375:(SEQ ID NO:128); T-575:(SEQ ID NO:129)] --.

B2

On page 16, line 16, after "DP107-like region",
insert the phrase -- [F1-107:(SEQ ID NO:98); T-12:(SEQ ID
NO:130); T-13:(SEQ ID NO:131); T-15:(SEQ ID NO:132); T-19:(SEQ

B3 ID NO:133); T-28:(SEQ ID NO:134); T-30:(SEQ ID NO:135); T-

66:(SEQ ID NO:136); T-576:(SEQ ID NO:137)] --.

[On page 17, line 5, after "data", insert the phrase

-- [F1-178:(SEQ ID NO:99); T-71:(SEQ ID NO:138); T-384:(SEQ

ID NO:139); T-616:(SEQ ID NO:140); T-617:(SEQ ID NO:141); T-

662:(SEQ ID NO:142); T-665:(SEQ ID NO:143); T-671:(SEQ ID

NO:144); T-730:(SEQ ID NO:145)] --.

[On page 17, line 9, after "data", insert the phrase

-- [HPF1 107:(SEQ ID NO:100); T-42:(SEQ ID NO:146); T-39:(SEQ

ID NO:147); T-40:(SEQ ID NO:148); T-45:(SEQ ID NO:149); T-

46:(SEQ ID NO:150); T-582:(SEQ ID NO:151)] --.

[On page 17, line 22, after "data", insert the phrase

-- [HPF3 178:(SEQ ID NO:101); T-269:(SEQ ID NO:152); T-

626:(SEQ ID NO:153); T-383:(SEQ ID NO:154); T-577:(SEQ ID

NO:155); T-578:(SEQ ID NO:156); T-579:(SEQ ID NO:157)] --.

On page 17, line 30, after "polyprotein gp41",

insert the phrase -- (SEQ ID NO:102) --.

On page 17, line 34, after "BALF4", insert the
phrase -- (SEQ ID NO:103) --.

On page 18, line 3, after "protein (designated EB1
or Zebra)", insert the phrase -- (SEQ ID NO:104) --.

On page 18, line 10, after "fusion glycoprotein F1",
insert the phrase -- (SEQ ID NO:105) --.

On page 18, line 14, after "S.", insert the phrase
-- (SEQ ID NO:106) --.

On page 18, line 17, after "gp20", insert the phrase
-- (SEQ ID NO:107) --.

On page 18, line 19, after "(Pilin)", insert the
phrase -- (SEQ ID NO:108) --.

On page 18, line 22, after "(Pilin)", insert the phrase -- (SEQ ID NO:109) --.

On page 18, line 19, after "fimbrial protein", insert the phrase -- (SEQ ID NO:110) --.

On page 18, line 28, after "toxin-1", insert the phrase -- (SEQ ID NO:111) --.

On page 18, line 31, after "Type E", insert the phrase -- (SEQ ID NO:112) --.

On page 18, line 34, after "enterotoxin A", insert the phrase -- (SEQ ID NO:113) --.

On page 19, line 2, after "enterotoxin A", insert the phrase -- (SEQ ID NO:114) --.

On page 19, line 5, after "proto-oncoprotein", insert the phrase -- (SEQ ID NO:115) --.

On page 19, line 8, after "protein P70", insert the phrase -- (SEQ ID NO:116) --.

On page 19, line 11, after "finger protein 10", insert the phrase -- (SEQ ID NO:117) --.

On page 19, line 14, after "data", insert the phrase -- [T-252AO:(SEQ ID NO:118); T-268AO:(SEQ ID NO:119)] --.

On page 19, line 19, after "data", insert the phrase -- (SEQ ID NO:120) --.

On page 19, line 22, after "data", insert the phrase -- [(SEQ ID NO:158); T50:(SEQ ID NO:159); (SEQ ID NO:160); T234:(SEQ ID NO:161); T235:(SEQ ID NO:162); T570:(SEQ ID NO:163); T381:(SEQ ID NO:164); T677:(SEQ ID NO:165); T589:(SEQ ID NO:166); T590:(SEQ ID NO:167); T591:(SEQ ID NO:168); T270:(SEQ ID NO:169); T271:(SEQ ID NO:170); T273:(SEQ ID NO:171); T608:(SEQ ID NO:172); T609:(SEQ ID NO:173); T610:(SEQ

B7

ID NO:174); T611:(SEQ ID NO:175); T612:(SEQ ID NO:176);
T595:(SEQ ID NO:177); T95:(SEQ ID NO:178); T96:(SEQ ID
NO:179); T97:(SEQ ID NO:180); T98:(SEQ ID NO:181); T99:(SEQ ID
NO:182); T103:(SEQ ID NO:183); T212:(SEQ ID NO:184); T213:(SEQ
ID NO:185); T214:(SEQ ID NO:186); T215:(SEQ ID NO:187);
T216:(SEQ ID NO:188); T229:(SEQ ID NO:189); T230:(SEQ ID
NO:190); T231:(SEQ ID NO:191); T379:(SEQ ID NO:192); T701:(SEQ
ID NO:193); T702:(SEQ ID NO:194); T703:(SEQ ID NO:195);
T704:(SEQ ID NO:196); T705:(SEQ ID NO:197); T706:(SEQ ID
NO:198); T156:(SEQ ID NO:199); T90:(SEQ ID NO:200)] --.

On page 20, line 22, after "data", insert the phrase
-- (SEQ ID NO:201) --.

B8

On page 20, line 31, after "peptides", insert the
phrase -- [173-219:(SEQ ID NO:202); 185-230:(SEQ ID NO:203);

T-446:(SEQ ID NO:204); 197-242:(SEQ ID NO:205); T-458:(SEQ ID
NO:206); 209-246:(SEQ ID NO:207)] --.

On page 21, line 17, after "Domain I", insert the
phrase -- (SEQ ID NO:208) --.

On page 21, line 18, replace "residues 174-220" with
the phrase -- residues 174-219 --.

On page 21, line 22. after "II", insert the phrase
-- (SEQ ID NO:209) --.

On page 21, line 22, replace "residues 233-291" with
the phrase -- residues 233-290 --.

On page 22, line 3, replace "(SEQ ID NO:25)" with
the phrase -- (SEQ ID NO:99) --.

On page 30, line 30, delete the phrase "(SEQ
ID:25)".



On page 30, line 31, delete the phrase "(SEQ ID:25)".

On page 30, line 33, delete the phrase "(SEQ ID:25)".

On page 31, line 2, delete the phrase "(SEQ ID:25)".

On page 32, line 2, delete the phrase "(SEQ ID:25)".

On page 33, line 2, delete the phrase "(SEQ ID:25)".

On page 34, line 35, delete the phrase "(SEQ ID:25)".

On page 35, line 20, delete the phrase "(SEQ.ID:25)".

On page 36, line 1, delete the phrase "(SEQ ID:25)".

On page 36, line 10, delete the phrase "(SEQ.ID:25)".

On page 319, the last line with a sequence, after "MQST-Z", insert the phrase -- (SEQ ID NO:16) --.

On page 323, the last line with a sequence, after "DELL-Z", insert the phrase -- (SEQ ID NO:17) --.

On page 326, the last line with a sequence, after "WIRRS-Z", insert the phrase -- (SEQ ID NO:18) --.

On page 328, the last line with a sequence, after "KEAIR-Z", insert the phrase -- (SEQ ID NO:19) --.

On page 330, the line ending with SNGVS-Z, after "SNGVS-Z", insert the phrase -- (SEQ ID NO:20) --.

On page 330, the line ending with NGVSV-Z, after "NGVSV-Z", insert the phrase -- (SEQ ID NO:21) --.

On page 330, the line ending with GVSVL-Z, after "GVSVL-Z", insert the phrase -- (SEQ ID NO:22) --.

On page 330, the line ending with VSVLT-Z, after "VSVLT-Z", insert the phrase -- (SEQ ID NO:23) --.

On page 330, the line ending with SVLTS-Z, after "SVLTS-Z", insert the phrase -- (SEQ ID NO:24) --.

On page 330, the line ending with SKVLD-Z, after "SKVLD-Z", insert the phrase -- (SEQ ID NO:25) --.

On page 330, the line ending with VLDLK-Z, after "VLDLK-Z", insert the phrase -- (SEQ ID NO:26) --.

On page 330, the line ending with LDLKN-Z, after "LDLKN-Z", insert the phrase -- (SEQ ID NO:27) --.

On page 330, the line ending with DLKNY-Z, after "DLKNY-Z", insert the phrase -- (SEQ ID NO:28) --.

On page 330, the line ending with LKNYI-Z, after "LKNYI-Z", insert the phrase -- (SEQ ID NO:29) --.

On page 330, the line ending with KNYID-Z, after "KNYID-Z", insert the phrase -- (SEQ ID NO:30) --.

On page 330, the line ending with NYIDK-Z, after "NYIDK-Z", insert the phrase -- (SEQ ID NO:31) --.

On page 330, the line ending with YIDKQ-Z, after "YIDKQ-Z", insert the phrase -- (SEQ ID NO:32) --.

On page 330, the line ending with IRRSN-Z, after "IRRSN-Z", insert the phrase -- (SEQ ID NO:33) --.

On page 330, the line ending with RRSNQ-Z, after "RRSNQ-Z", insert the phrase -- (SEQ ID NO:34) --.

On page 330, the line ending with RSNQK-Z, after "RSNQK-Z", insert the phrase -- (SEQ ID NO:35) --.

On page 330, the line ending with SNQKL-Z, after "SNQKL-Z", insert the phrase -- (SEQ ID NO:36) --.



On page 330, the line ending with NQKLD-Z, after "NQKLD-Z", insert the phrase -- (SEQ ID NO:37) --.

On page 330, the line ending with QKLDS-Z, after "QKLDS-Z", insert the phrase -- (SEQ ID NO:38) --.

On page 330, the line ending with KLDSI-Z, after "KLDSI-Z", insert the phrase -- (SEQ ID NO:39) --.

On page 330, the line ending with LDSIG-Z, after "LDSIG-Z", insert the phrase -- (SEQ ID NO:40) --.

On page 330, the line ending with DSIGN-Z, after "DSIGN-Z", insert the phrase -- (SEQ ID NO:41) --.

On page 330, the line ending with SIGNW-Z, after "SIGNW-Z", insert the phrase -- (SEQ ID NO:42) --.

On page 330, the line ending with IGNGW-Z, after "IGNGW-Z", insert the phrase -- (SEQ ID NO:43) --.

On page 330, the line ending with GNWHQ-Z, after "GNWHQ-Z", insert the phrase -- (SEQ ID NO:44) --.

On page 330, the line ending with NWHQS-Z, after "NWHQS-Z", insert the phrase -- (SEQ ID NO:45) --.

On page 330, the line ending with WHQSS-Z, after "WHQSS-Z", insert the phrase -- (SEQ ID NO:46) --.

On page 330, the line ending with HQSST-Z, after "HQSST-Z", insert the phrase -- (SEQ ID NO:47) --.

On page 330, the line ending with QSSTT-Z, after "QSSTT-Z", insert the phrase -- (SEQ ID NO:48) --.

On page 330, the line ending with QSVQS-Z, after "QSVQS-Z", insert the phrase -- (SEQ ID NO:49) --.

On page 331, the line ending with VQSSI-Z, after "VQSSI-Z", insert the phrase -- (SEQ ID NO:50) --.



On page 331, the line ending with SIGNL-Z, after "SIGNL-Z", insert the phrase -- (SEQ ID NO:51) --.

On page 331, the line ending with IGNLI-Z, after "IGNLI-Z", insert the phrase -- (SEQ ID NO:52) --.

On page 331, the line ending with GNLIV-Z, after "GNLIV-Z", insert the phrase -- (SEQ ID NO:53) --.

On page 331, the line ending with NLIVA-Z, after "NLIVA-Z", insert the phrase -- (SEQ ID NO:54) --.

On page 331, the line ending with LIVAI-Z, after "LIVAI-Z", insert the phrase -- (SEQ ID NO:55) --.

On page 331, the line ending with IVAIK-Z, after "IVAIK-Z", insert the phrase -- (SEQ ID NO:56) --.

On page 331, the line ending with VAIKS-Z, after "VAIKS-Z", insert the phrase -- (SEQ ID NO:57) --.

On page 331, the line ending with AIKSV-Z, after "AIKSV-Z", insert the phrase -- (SEQ ID NO:58) --.

On page 331, the line ending with IKSQV-Z, after "IKSVQ-Z", insert the phrase -- (SEQ ID NO:59) --.

On page 331, the line ending with QDYVN-Z, after "QDYVN-Z", insert the phrase -- (SEQ ID NO:60) --.

On page 331, the line ending with DYVNK-Z, after "DYVNK-Z", insert the phrase -- (SEQ ID NO:61) --.

On page 331, the line ending with NKEIV-Z, after "NKEIV-Z", insert the phrase -- (SEQ ID NO:62) --.

On page 331, the line ending with YELQK-Z, after "YELQK-Z", insert the phrase -- (SEQ ID NO:63) --.

On page 331, the line ending with ELQKL-Z, after "ELQKL-Z", insert the phrase -- (SEQ ID NO:64) --.

On page 331, the line ending with LQKLN-Z, after "LQKLN-Z", insert the phrase -- (SEQ ID NO:65) --.

On page 331, the line ending with QKLNS-Z, after "QKLNS-Z", insert the phrase -- (SEQ ID NO:66) --.

On page 331, the line ending with KLNSW-Z, after "KLNSW-Z", insert the phrase -- (SEQ ID NO:67) --.

On page 331, the line ending with LNSWD-Z, after "LNSWD-Z", insert the phrase -- (SEQ ID NO:68) --.

On page 331, the line ending with NSWDV-Z, after "NSWDV-Z", insert the phrase -- (SEQ ID NO:69) --.

On page 331, the line ending with SWDVF-Z, after "SWDVF-Z", insert the phrase -- (SEQ ID NO:70) --.

On page 331, the line ending with WDVFG-Z, after "WDVFG-Z", insert the phrase -- (SEQ ID NO:71) --.

On page 331, the line ending with DVFGN-Z, after "DVFGN-Z", insert the phrase -- (SEQ ID NO:72) --.

On page 331, the line ending with AKELL-Z, after "AKELL-Z", insert the phrase -- (SEQ ID NO:73) --.

On page 331, the line ending with KELLE-Z, after "KELLE-Z", insert the phrase -- (SEQ ID NO:74) --.

On page 331, the line ending with ELLES-Z, after "ELLES-Z", insert the phrase -- (SEQ ID NO:75) --.

On page 331, the line ending with LLESS-Z, after "LLESS-Z", insert the phrase -- (SEQ ID NO:76) --.

On page 331, the line ending with LESSD-Z, after "LESSD-Z", insert the phrase -- (SEQ ID NO:77) --.

On page 331, the line ending with ESSDQ-Z, after "ESSDQ-Z", insert the phrase -- (SEQ ID NO:78) --.



On page 331, the line ending with SSDQI-Z, after "SSDQI-Z", insert the phrase -- (SEQ ID NO:79) --.

On page 331, the line ending with SDQIL-Z, after "SDQIL-Z", insert the phrase -- (SEQ ID NO:80) --.

On page 331, the line ending with DQILR-Z, after "DQILR-Z", insert the phrase -- (SEQ ID NO:81) --.

On page 331, the line ending with ILRSM-Z, after "ILRSM-Z", insert the phrase -- (SEQ ID NO:82) --.

On page 331, the line ending with LRSMK-Z, after "LRSMK-Z", insert the phrase -- (SEQ ID NO:83) --.

On page 366, line 15, before "(primer A)", insert the phrase -- (SEQ ID NO:11) --.

On page 366, line 16, before "(primer", insert the phrase -- (SEQ ID NO:12) --.

On page 366, line 21, before "introduces", insert the phrase -- (SEQ ID NO:13) --.

On page 366, line 25, before "(primer C)", insert the phrase -- (SEQ ID NO:14) --.

On page 366, line 31, before "(primer D)", insert the phrase -- (SEQ ID NO:15) --.

After page 404, insert pages 405 through 514 of the Sequence Listing submitted herewith.

IN THE CLAIMS

Please amend the claims as follows:

Please renumber pages 405 through 406 as pages 515 through 516.

B